

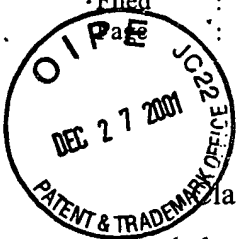
Applicant : Michael Benz et al.

Serial No. : 09/806,646

Filed : April 2, 2001

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Attorney's Docket No.: 12758-
024001 / 1998P02894WOUS



REMARKS

Claims 1-8 and 15-30 are pending in the application, with claims 1 to 8 having been amended, as shown above, to attend to minor informalities. Claims 1, 3, 5 and 15 are the independent claims. Favorable consideration and early passage to issue are respectfully requested.

The claims with brackets and underlines, are shown in the attached Appendix.

Applicants' undersigned attorney can be reached at the address shown below.

A check for excess claims fee is enclosed. Please apply any charges or credits to Deposit Account No. 06-1050.

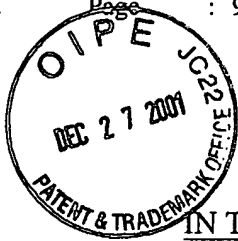
Respectfully submitted,

Date: _____

11/15/01

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Version with markings to show changes made

IN THE CLAIMS:

Claims 9-14 have been cancelled.

Claims 1-8 have been amended as follows:

1. (Amended) A method of [for] controlling power in a radio communication system having a radio interface between a first radio station and a second radio station, [(BS, MS), in which] comprising:

receiving a transmission from[- the transmissions of] the second radio station [(MS, BS) are received in] at the first radio station [(BS, MS)]; [and]

determining a transmission power correction instruction [(TPC) is determined for the] that corresponds to a first transmission power of the second radio station [(MS, BS)], the transmission power correction instruction comprising a variable power adjustment increment, the variable power adjustment increment being adjustable by the first radio station and the second radio station in a subscriber dependent manner and a time-dependent manner;

evaluating, over time, an interruption of transmission between the first radio station and the second radio station;

transmitting

[-] the transmission power correction instruction [(TPC) is transmitted] to the second radio station [(MS, BS)] during a [subsequent] transmission of the first radio station [(BS, MS)]; and

adjusting a second transmission power of the second radio station according to the transmission power correction instruction;

wherein the variable power adjustment increment is temporarily increased after the end of an interruption of transmission between the first radio station and the second radio station.

[- the second radio station (MS, BS) takes the transmission power correction instruction (TPC) into consideration for adjusting the transmission power during one of its subsequent transmissions,

- the transmission power correction instruction (TPC) is referred to a variable increment (DTPC) of the transmission power adjustment which is adjusted by the radio stations (BS, MS) in a subscriber-dependent and time-dependent manner,
- and a condition of the transmission between the radio stations is evaluated repetitively in time in the radio stations (BS, MS), characterized in that
- the transmission condition is an interruption of a continuous transmission for measuring purposes,
- and the increment of the transmission power adjustment is temporarily increased after the end of the interruption.]

2. (Amended) The method of [as claimed in] claim 1, wherein an [in which the measure of] amount of [the] increase of the variable power adjustment increment is based [dependent] on a [the] length of the interruption.

3. (Amended) A method of [for] controlling power in a radio communication system having a radio interface between a first radio station and a second radio station, [(BS, MS), in which] comprising:

receiving[- the] transmissions of the second radio station [(MS, BS) are received in] at the first radio station [(BS, MS)]; [and]

determining a transmission power correction instruction [(TPC) is determined for] that corresponds to a first [the] transmission power of the second radio station, [(MS, BS),] [-] the transmission power correction instruction [(TPC)] comprising a variable power adjustment increment;

evaluating, over time, a condition of transmission between the first radio station and the second radio station, the condition of transmission comprising a speed of movement of the first radio station or the second radio station;

transmitting[- is transmitted] the transmission power correction instruction to the second radio station [(MS, BS)] during a [subsequent] transmission of the first radio station [(BS, MS),]; and

adjusting

[- the second radio station (MS, BS) takes the transmission power correction instruction (TPC) into consideration for adjusting the] a second transmission power [during one of its subsequent transmissions,] of the second radio station according to the transmission power correction instruction;

wherein the variable

[- a condition of the transmission between the radio stations is evaluated repetitively in time in the radio station (BS, MS),

- and the transmission condition is a speed of the first or a second radio station, characterized in that the] power adjustment increment is greater in a medium range of [the] speed than in a high range of [the] speed.

4. (Amended) The method of [as claimed in] claim 3, wherein [in which] the variable power adjustment increment is [also] greater in a [the] medium range of [the] speed than in a low range of [the] speed.

5. (Amended) A method of [for] controlling power in a radio communication system having a radio interface between a first radio station and a second radio station [(BS, MS), in which], comprising:

receiving [- the] transmissions of the second radio station [(MS, BS) are received in] at the first radio station [(BS, MS)]; [and]

determining a transmission power correction instruction [(TPC) is determined for the] that corresponds to a first transmission power of the second radio station [(MS, BS)],
[-] the transmission power correction instruction [(TPC)] comprising a variable power adjustment increment;

evaluating, over time, a condition of transmission between the first radio station and the second radio station, the condition of transmission comprising one or more of a number of transmitting antennas and a number of receiving antennas used to establish communication between the first radio station and the second radio station;

transmitting [is transmitted] the transmission power correction instruction to the second radio station [(MS, BS)] during a [subsequent] transmission of the first radio station [(BS, MS)];
and

adjusting[- the second radio station (MS, BS) takes the transmission power correction instruction (TPC) into consideration for adjusting the] a second transmission power [during one of its subsequent transmissions,] of the second radio station according to the transmission power correction instruction;

wherein the variable

[- the transmission power correction instruction (TPC) is referred to a variable increment (DTPC) of the transmission power adjustment which is adjusted by the radio stations (BS, MS) in a subscriber-dependent and time-dependent manner,

- and a condition of the transmission between the radio stations is evaluated repetitively in time in the radio stations (BS, MS), characterized in that

- the transmission condition is the number of transmitting and/or receiving antennas used for a connection,

- and the] power adjustment increment varies [is changed in the case of a change] in accordance with at least one of the number of transmitting antennas and [and/or] the number of receiving antennas [used for a connection].

6. (Amended) The method of [as claimed in] claim 5, wherein, [characterized in that] in a case that transmitting is performed in accordance with a macro diversity method, the number of [the] antennas used to establish [or] the connection is changed by changing a [the] number of [the] base stations [(BS) which] that are in [radio] contact with at least one of the first radio station and the second radio station [the subscriber station (MS) in the case of a macro diversity transmission method].

7. (Amended) The method of [as claimed in] claim 6, wherein [in which] the variable power adjustment increment is [only] increased [for reducing the transmission power] in a [the] case that [of an increase in] the number of base stations that [which] are in [radio] contact with at least one of the first radio station and the second radio station is increased.[the subscriber station.]

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8. (Amended) The method of [as claimed in] claim 6, wherein [in which] the variable power adjustment increment is [only] increased [for increasing the transmission power] in a [the] case [of a reduction in] that the number of base stations that [which] are in [radio] contact with at least one of the first radio station and the second radio station is decreased. [the subscriber station.]